STR-AV220/AV320

SERVICE MANUAL

US Model
Canadian Model

Photo : STR-AV320

SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8-ohm load, both channels driven, from 40-20,000 Hz, rated 50 watts (STR-AV320) or 40 watts (STR-AV220) per channel minimum RMS power, with no more than 0.8% total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

Amplifier section

Continuous RMS power output (8 ohms, at 1 kHz less than 0.8% total harmonic distortion)

STR-AV320 : 65 watts + 65 watts
STR-AV220 : 50 watts + 50 watts

Dynamic power

	4 ohms	8 ohms
STR-AV 220	60 W + 60 W	55 W + 55 W
STR-AV 320	75 W + 75 W	65 W + 65 W

at 1 kHz, IHF

Harmonic distortion

Less than 0.8% at rated output

Frequency response

PHONO: RIAA equalization curve ±0.5 dB
CD, VIDEO, TAPE: 10 Hz – 50 kHz $^{0}_{5}$ dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD VIDEO TAPE	150 mV	50 kilohms	95 dB 80 dB* (A, 150 mV)

* '78 IHF

Outputs

REC OUT, VIDEO (AUDIO) OUT	Voltage 150 mV Impedance 10 kilohms
SPEAKER A, B	Accepts speakers of 8 – 16 ohms
HEADPHONES	Accepts low and high impedance headphones

Tone controls — BASS: ±10 dB at 100 Hz
TREBLE: ±10 dB at 10 kHz

Muting — −20 dB

DBFB — +12 dB at 70 Hz

	FM tuner section	AM tuner section
Tuning range	87.5 – 108 MHz	530 – 1,710 kHz
Antenna terminals	300 ohms, balanced 75 ohms, unbalanced	External antenna terminal
Sensitivity at 50 dB quieting	18.3 dBf, 4.5 μV (mono) 38.3 dBf, 45 μV (stereo)	——
Usable sensitivity	11.2 dBf, 2 μV (IHF)	Loop antenna: 500 μV (at 1,000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.2% (mono), 0.4% (stereo) at 1 kHz	0.3% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	40 dB at 10 kHz
Separation	45 dB at 1 kHz	——
Frequency response	30 Hz – 15 kHz $^{0.5}_{2}$ dB	——

General

System

Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp
Power amplifier section: quasi-complementary SEPP

— Continued on page 2 —

FM STEREO FM-AM RECEIVER

SONY®

Power requirements	
	120 V AC, 60 Hz
Power consumption	
	U.S.A. model: 100 watts (STR-AV320) 90 watts (STR-AV220)
	Canadian model: 160 watts (STR-AV320) 140 watts (STR-AV220)
	In standby condition: 5 watts (STR-AV320 only)
AC outlets	One switched (100 watts)
Dimensions	Approx. 430 × 110 × 295 mm (w/h/d) (17 × 4 5/16 × 11 5/8 inches) including projecting parts and controls
Weight	Approx. 5.2 kg (11 lbs 7 oz) net (STR-AV220) Approx. 6.2 kg (13 lbs 11 oz) net (STR-AV320)
Accessories supplied	
	Remote Commander RM-S103 (1) (STR-AV320 only) Sony batteries SUM 3(NS) (2) (STR-AV320 only) FM wired antenna (1) AM loop antenna (1)

Design and specifications subject to change without notice.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

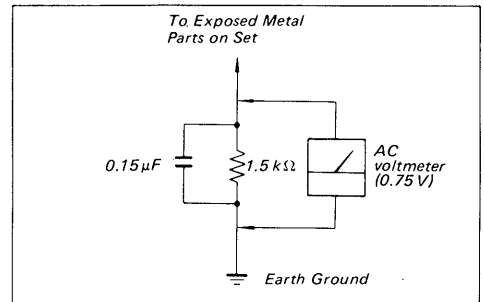


Fig. A. Using an AC voltmeter to check AC leakage.

WARNING !!

ADVARSEL!
Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages
af en sagkyndig, og som
beskrevet i servicemanualen.

LITHIUM BATTERY

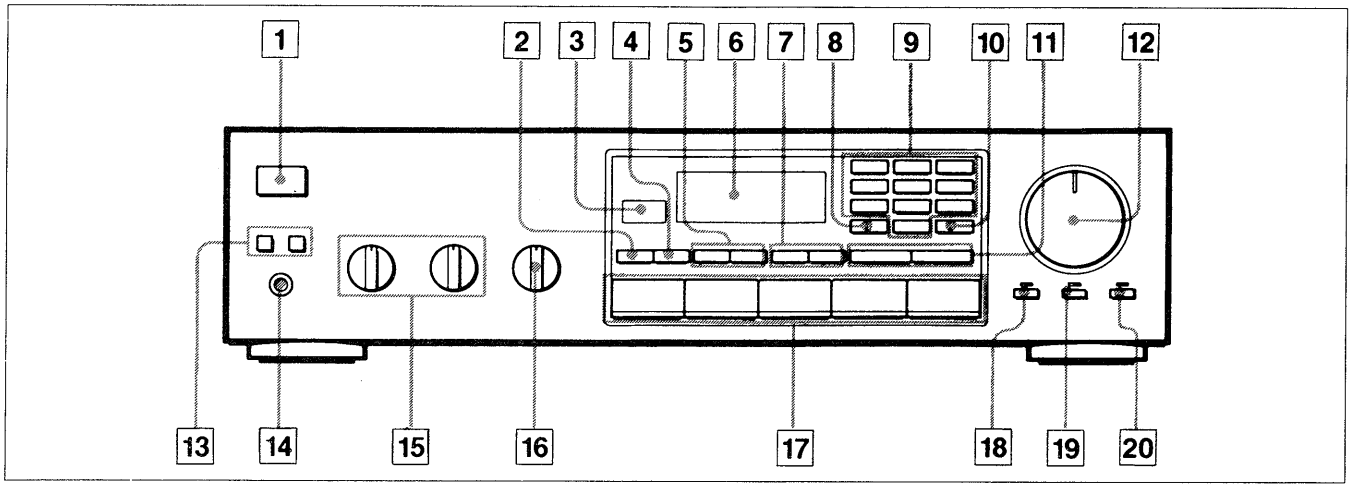
SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

"Batteriet må kun udskiftes med et batteri af samme fabrikat og type".

Because of the risk for explosion the battery must be replaced with the same type and manufacture.

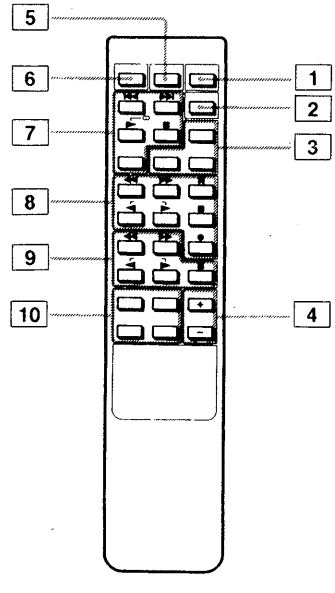
SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS



1 **POWER switch**
2 **DIRECT TUNING button**
3 **Remote sensor** (STR-AV320 only)
4 **FM MODE button**
When an FM stereo program is noisy or hard to receive, press this button. The STEREO indicator goes out (the sound is heard in monaural, but the reception will be improved). To return to the stereo mode, press again or change the frequency.
5 **BAND selectors**
6 **Display window**
7 **TUNING +/− buttons**
8 **MEMORY button**
9 **Numeric buttons**
10 **SHIFT button**
11 **PRESET +/− buttons**
12 **VOLUME control and indicator**
The indicator is only equipped with the STR-AV320
13 **SPEAKERS selectors**
Depress to select which speaker system to drive. For both speaker systems, depress A and B.
14 **HEADPHONES jack** (stereo phone jack)
15 **TONE controls**
Turn the TREBLE control to adjust the high frequency sound. Turn BASS control to adjust the low frequency sound.
16 **BALANCE control**
Turn clockwise to decrease the left channel volume, and turn counterclockwise to decrease the right channel volume.
17 **Function selectors**
18 **DBFB** (Dynamic Bass Feed Back) **button and indicator**
To reinforce the bass frequency sound, press this button.
19 **MUTING button and indicator** (STR-AV320 only)
Press to attenuate the sound level immediately (−20 dB ATT). Pressing this button makes the indicator be lighted. To restore the sound level, press again.
20 **SURROUND button and indicator**
To obtain the surround effect, press this button.

Remote Commander RM-S103 (STR-AV320 only)



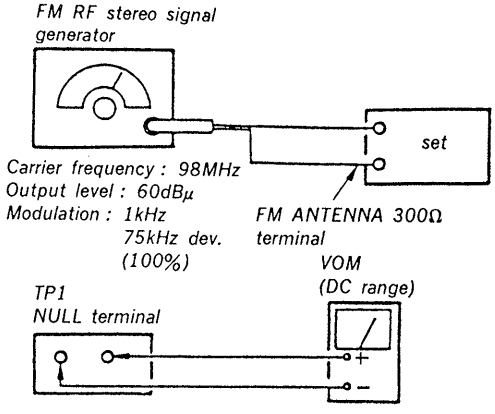
1 **POWER button**
2 **DBFB button**
3 **TUNER PRESET +/− and SHIFT buttons**
4 **VOLUME +/− buttons**
5 **SURROUND button**
6 **MUTING button**
7 **CD player operation buttons**
D. (disc) SKIP: When your CD player is equipped with multi-disc changer, use this button to select loaded disc.
CD ▶: Selects the CD function and starts CD playback.
8 **DECK B operation buttons** (also for single tape deck)
DECK B ◀/▶: Select tape function and start tape playback on deck B.
9 **DECK A operation buttons**
DECK A ◀/▶: Select tape function and start tape playback on deck A.
10 **Function select buttons.**

SECTION 2
ELECTRICAL ADJUSTMENTS

FM SECTION

• FM Discriminator (NULL) Adjustment

Setting :



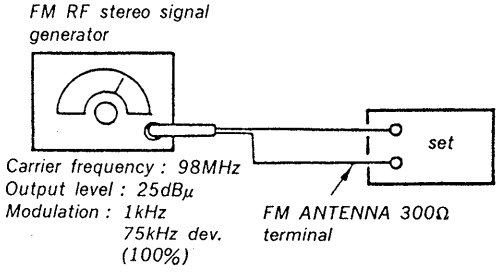
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning Level adjustment should be made after FM discriminator adjustment.

• FM Stereo Operation Level Adjustment

Setting :

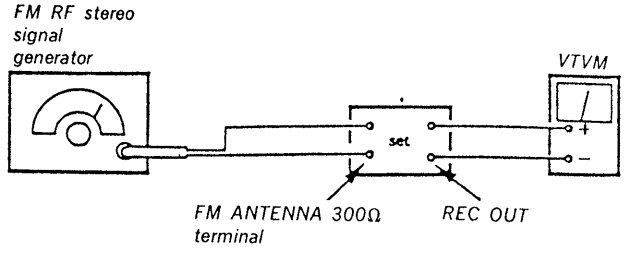


Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the STEREO LED goes on.

• FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 60dBμ
Modulation :
Audio (1kHz) : 33.75kHz dev. (45%)
Pilot (19kHz) : 7.5kHz dev. (10%)
Sub-channel (38kHz) : 33.75kHz dev. (45%)

Procedure :

Tune the set to 98MHz.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading.

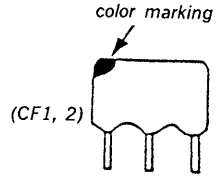
L-CH Stereo separation : Ⓐ−Ⓑ

R-CH Stereo separation : Ⓒ−Ⓓ

The separations of both channels should be equal.

Note on Ceramic Filter (CF1, 2) Replacement.

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by (* A, * B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○ : short

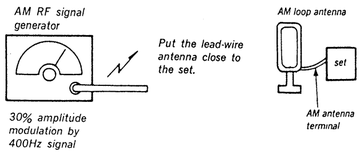
× : open

Ceramic filter		Connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	* A (D326)	* B (D327)	
White	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	○	10.650

AM SECTION

• AM Meter Adjustment

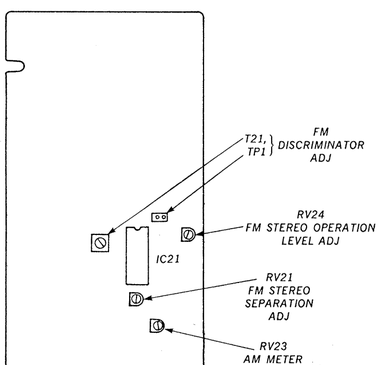
Setting :


AM RF signal generator
Put the lead-wire antenna close to the set.
AM loop antenna
set
AM antenna terminal
30% amplitude modulation by 400Hz signal

Procedure :

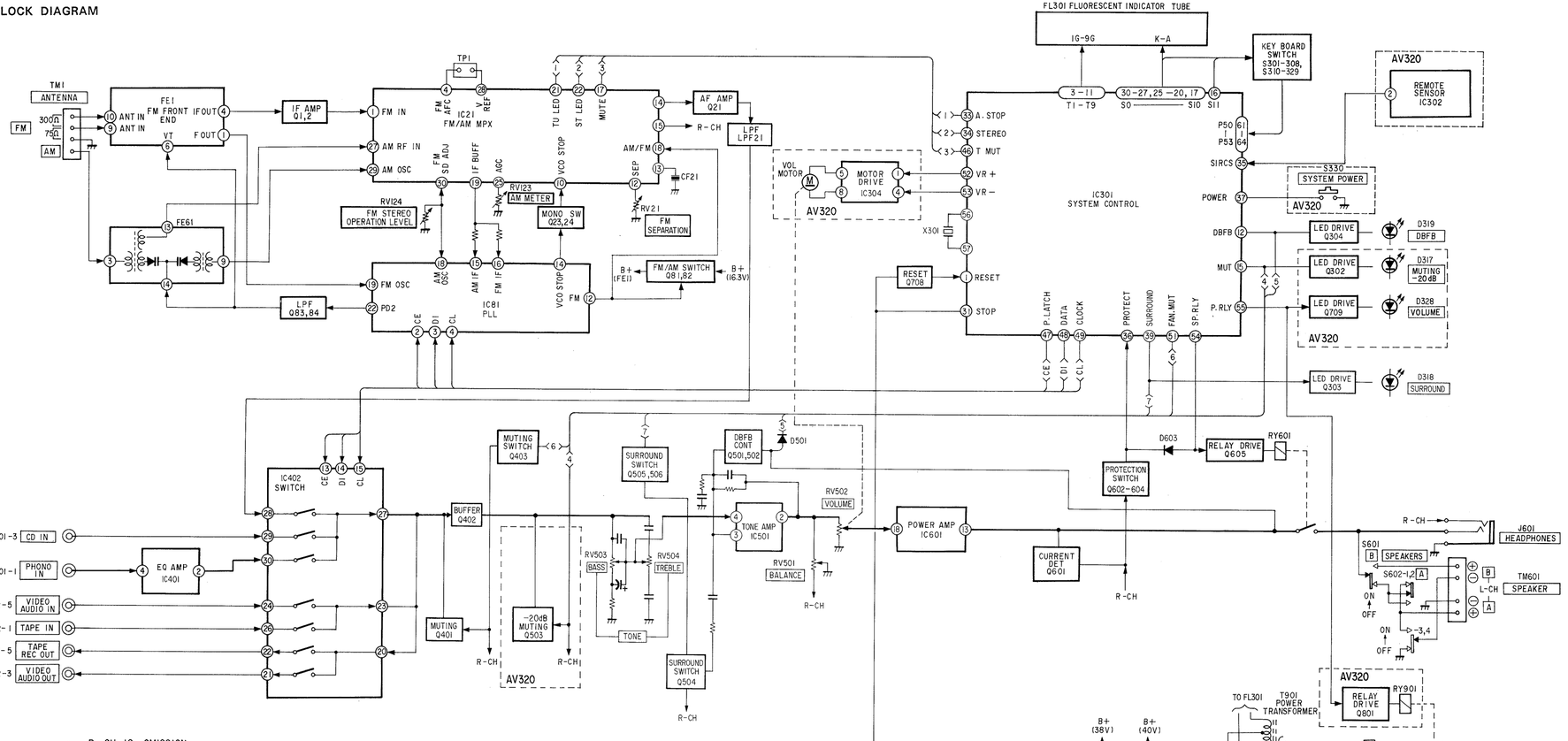
1. Tune the set to 1,050kHz.
2. Adjust the RV23 so that the 5 point segment of the signal meter goen on.

Adjustment Location : tuner board

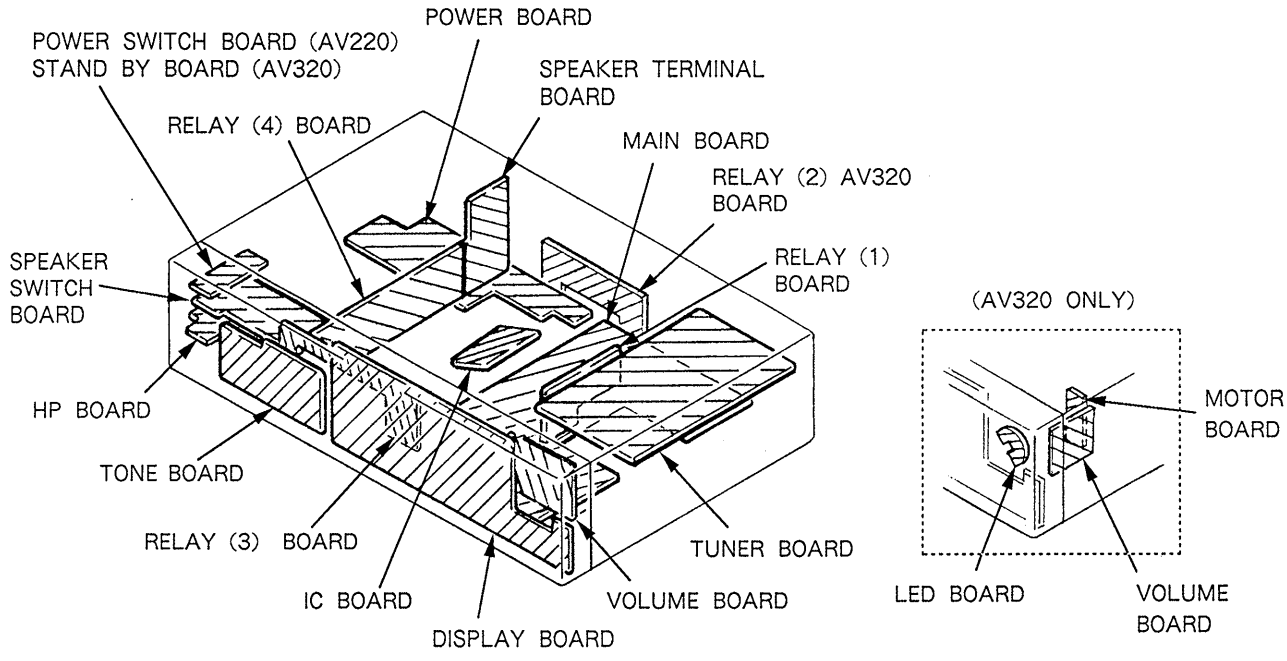


SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM

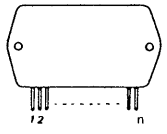


CIRCUIT BOARDS LOCATION



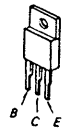
3-2. SEMICONDUCTOR LEAD LAYOUTS

STK-4162MK2
STK-4182MK2

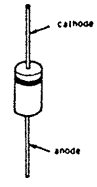


2SA988-F

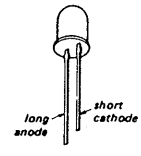
2SD1585-L



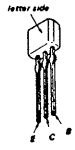
HZ4ALL



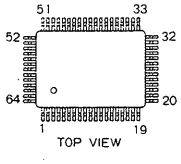
SEL2510C



BN1A3Q



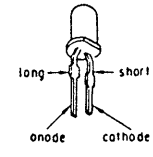
μPD75206G-557-1B



2SK246GR3

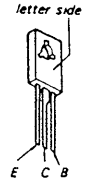
MC921

SEL2810A-C

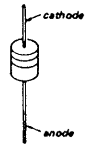


DTA124ES
DTC124ES
2SA1115
2SC2603-EF
2SC2669
2SC3623A-LK

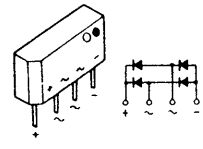
2SD809-K



HZS6C3L
UZ-4.3BSB
UZ-6.2BSB
UZ-15BSB
UZ-16BSB
UZ-27BSB
1SS120



RBA-402
S1VB40



• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
IC301	C-3	D306	C-5
IC302	C-1	D307	C-5
IC304	B-10	D308	C-5
IC401	C-13	D309	C-5
IC402	D-15	D311	C-4
IC501	C-30	D312	B-2
IC601	F-19	D313	D-2
		D314	C-4
Q302	C-8	D315	C-4
Q303	C-8	D317	B-10
Q304	C-8		
Q401	D-16	D318	B-10
Q402	F-15	D319	B-9
		D320	D-3
Q403	I-15	D324	D-8
Q451	D-16	D325	D-8
Q452	F-15		
Q501	C-29	D326	C-8
Q502	C-29	D327	D-8
		D328	I-4
Q503	C-27	D401	I-15
Q504	C-28	D402	I-15
Q505	C-27		
Q506	C-28	D501	C-28
Q551	C-29	D502	C-28
		D601	F-17
Q552	C-29	D602	I-16
Q553	C-27	D603	I-17
Q601	F-17		
Q602	E-17	D604	J-16
Q603	E-18	D605	J-15
		D651	F-17
Q604	E-18	D702	I-16
Q605	I-17	D703	J-17
Q651	F-18		
Q701	I-16	D704	H-16
Q702	H-16	D705	H-16
		D706	B-17
Q703	C-17	D707	B-17
Q704	C-17	D708	C-17
Q705	C-17		
Q706	D-17	D709	J-15
Q707	D-17	D710	I-14
		D801	D-17
Q708	J-14	D802	J-23
Q709	I-14	D803	I-22
Q801	I-21		
		D813	B-18
D301	C-6	D813	I-22
D302	C-6		
D303	C-6		
D304	C-6		
D305	C-5		

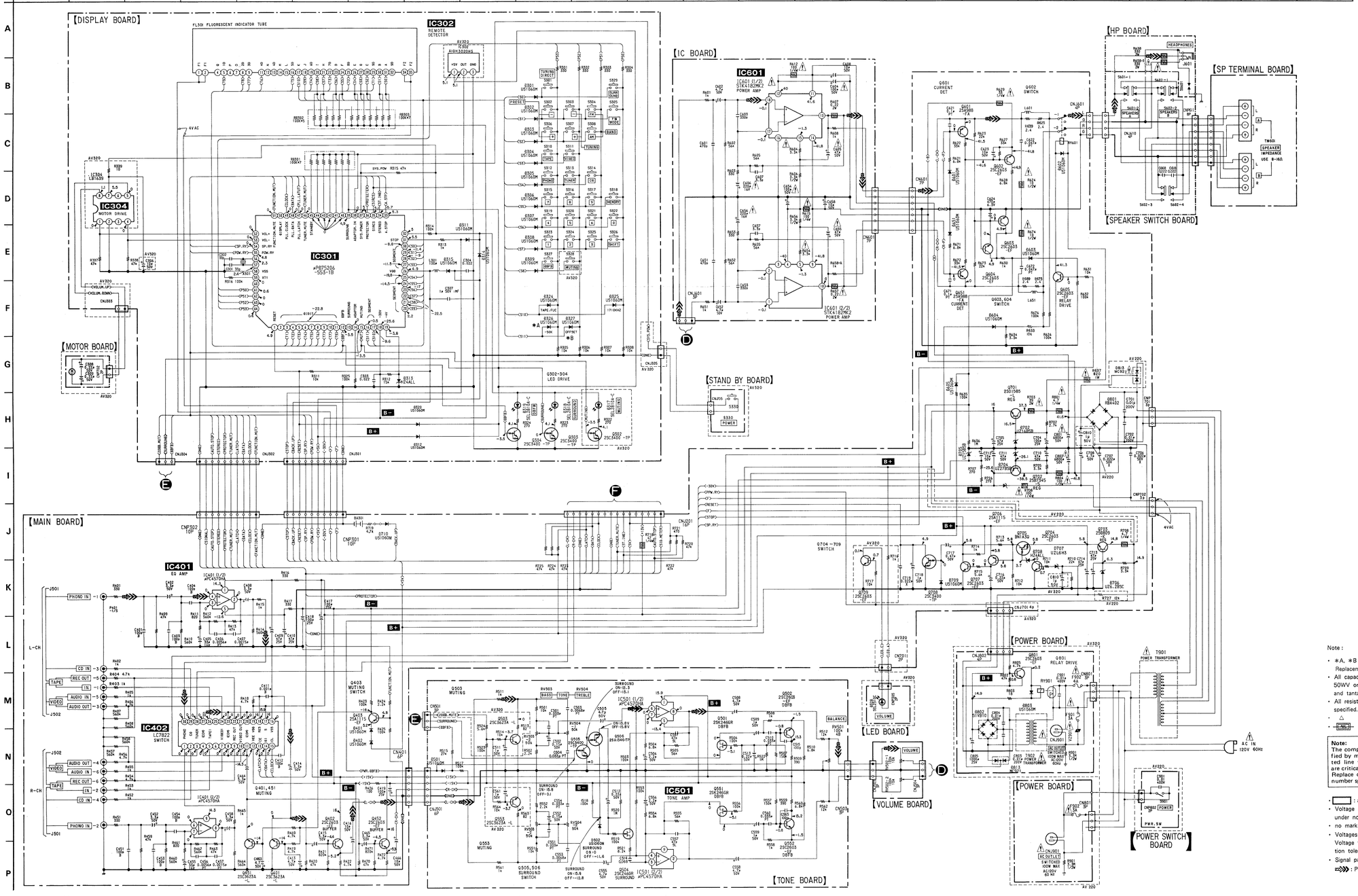
Note :

- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ⬚ : indicates side identified with part number.
- ※A, ※B : See page 4 for Note on Ceramic Filter (CF1, 2) Replacement.

3-3. PRINTED WIRING BOARDS – MAIN SECTION –

【DISPLAY BOARD】 【MAIN BOARD】 【RELAY(2)BOARD】 【SPEAKER SWITCH BOARD】 【HP BOARD】 【TONE BOARD】 【RELAY(3)BOARD】 【IC BOARD】 【SPEAKER TERMINAL BOARD】 【RELAY(4)BOARD】 【RELAY(1)BOARD】 【VOLUME BOARD】 【LED BOARD】 【MOTOR BOARD】 【STAND BY BOARD】 【POWER BOARD】 【POWER SWITCH BOARD】

FL501 FLUORESCENT INDICATOR TUBE



Note :

- ∗A, ∗B : See page 4 for Note on Ceramic Filter (CF1, 2) Replacement.
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⚠ : nonflammable resistor.

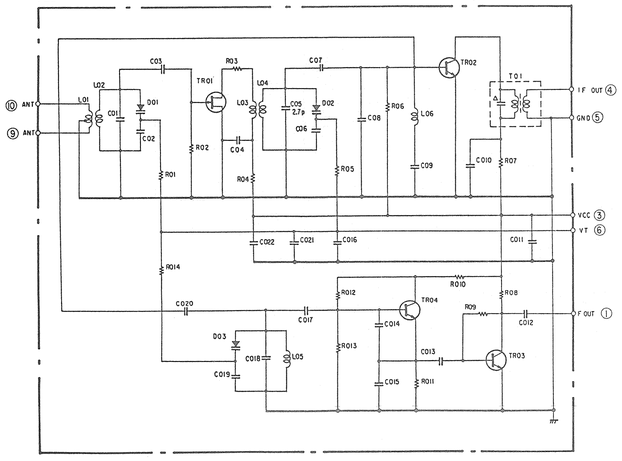
Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

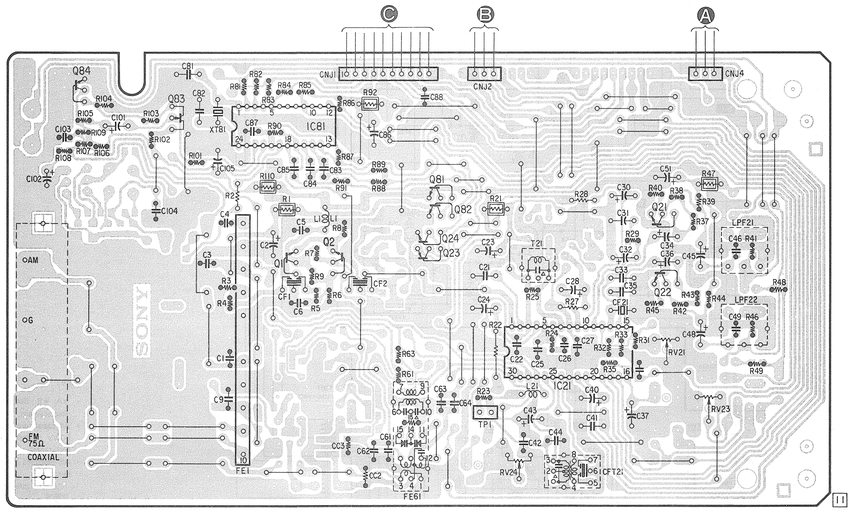
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : PHONE
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : PHONO

● FRONT END

FE1

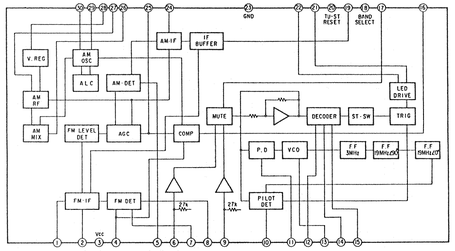


3-5. PRINTED WIRING BOARDS – TUNER SECTION –

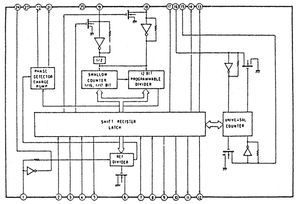


3-7. IC BLOCK DIAGRAMS

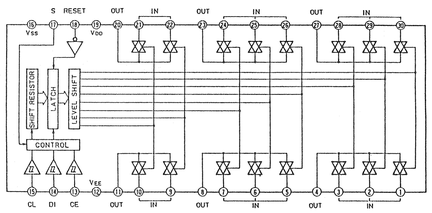
IC21 LA1851N



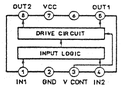
IC81 LC7218



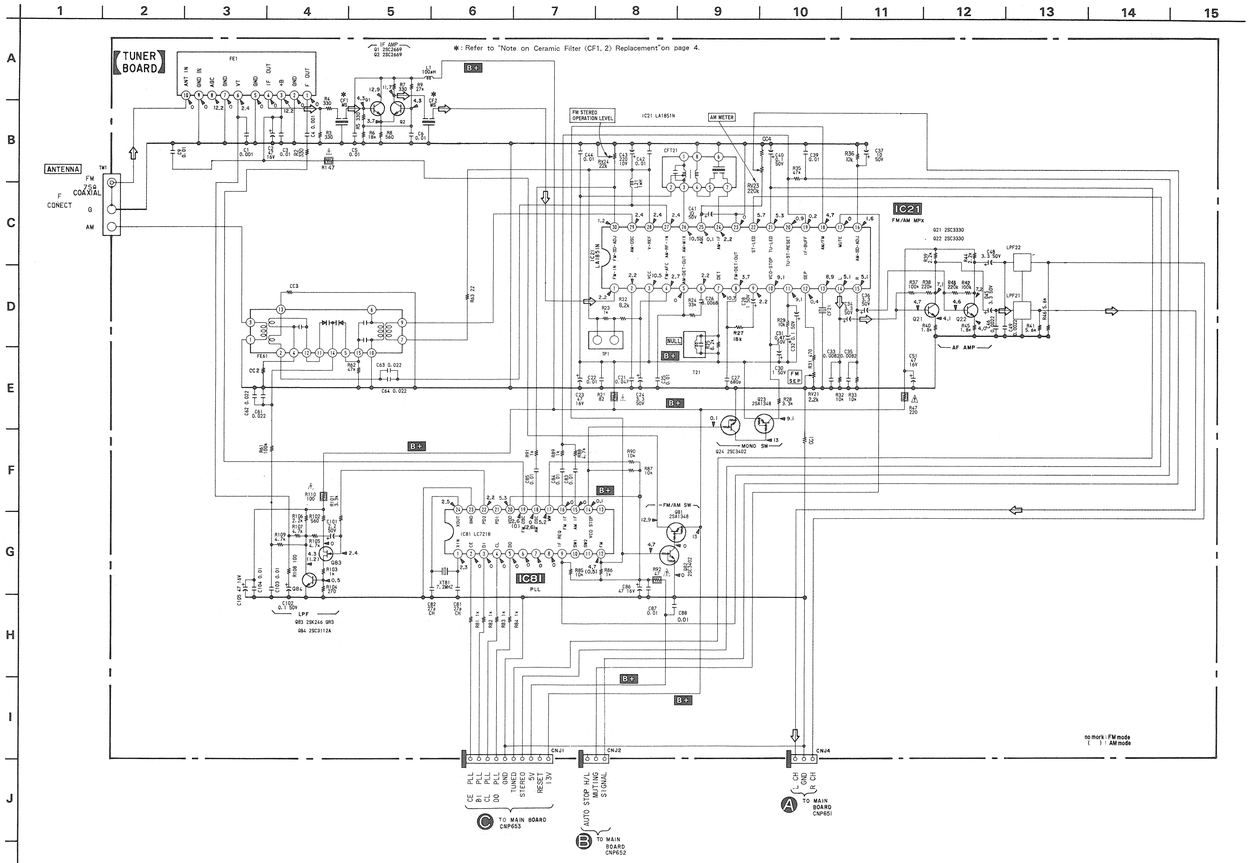
IC502 LC7822



IC503 LB1639



3-6. SCHEMATIC DIAGRAM – TUNER SECTION –



3-8. EXPLANATION OF IC301 (μPD75206)

PIN No.	SIGNAL NAME	FUNCTION		I／O	ACTIVE
1	RESET	Micro Computer RESET		I	L
2	T0	FL tube indication (invalid) digit		O	H
3	T1	FL tube indication digit	T1	O	H
4	T2	FL tube indication digit	T2	O	H
5	T3	FL tube indication digit	T3	O	H
6	T4	FL tube indication digit	T4	O	H
7	T5	FL tube indication digit	T5	O	H
8	T6	FL tube indication digit	T6	O	H
9	T7	FL tube indication digit	T7	O	H
10	T8	FL tube indication digit	T8	O	H
11	T9	FL tube SIGNAL indication digit	T9	O	H
12	T10／PH3	DBFB Output		O	H
13	T11／PH2	IF WIDE／NARROW Output		O	H
14	T12／PH1	Adapter Output		O	H
15	T13／PH0	−20dB Muting Output		O	H
16	T14／S11	FL tube indication Segment／Diode	S11	O	H
17	T15／S10	FL tube indication Segment／Diode	S10	O	H
18	V road	FL tube pulldown power supply		−	−
19	V pre	FL tube driver power supply		−	−
20	S9	FL tube indication Segment／Diode	S9	O	H
21	S8	FL tube indication Segment／Key Scan	S8	O	H
22	S7	FL tube indication Segment／Key Scan	S7	O	H
23	S6	FL tube indication Segment／Key Scan	S6	O	H
24	S5	FL tube indication Segment／Key Scan	S5	O	H
25	S4	FL tube indication Segment／Key Scan	S4	O	H
26	Vdd	Micro Computer power supply		−	−
27	S3	FL tube indication Segment／Key Scan	S3	O	H
28	S2	FL tube indication Segment／Key Scan	S2	O	H
29	S1	FL tube indication Segment／Key Scan	S1	O	H
30	S0	FL tube indication Segment／Key Scan	S0	O	H
31	P00／INT4	Signal to cut power supply	STOP	I	L
32	P01／SCK	Serial latch for electrical adjustment use	SI. LAT	I	L

−Continued on page 22−

PIN No.	SIGNAL NAME	FUNCTION		I/O	ACTIVE
33	P02/S0	Tuner Auto Stop input	ASTP	I	L
34	P03/S1	Tuner Stereo input	STEREO	I	L
35	P10/INT0	Remote Control Signal input	SIRCS	I	L
36	P11/INT1	Protector input	PROTECT	I	L
37	P12/INT2	System Power Key input	PKEY	I	L
38	P13/TI0	Adapter Mechanical Switch input	AKEY	I	H
39	P20	Surround output	SURROUND	O	H
40	P21	Video Control A	VCRA	O	H
41	P22	Video Control B	VCRB	O	H
42	P23/BUZ	Video Inhibit	VCRI	O	H
43	P30	Protector Muting	PMUT	O	L
44	P31	Source Direct Output		O	H
45	P32	Standby LED Output	STANBY	O	H
46	P33	Tuner Muting	TMUTE	O	H
47	P60	PLL/7822 Latch	PLAT	O	H
48	P61	PLL/7822/SI Data	DATA	I/O	H
49	P62	PLL/7822/SI Clock	CLOK	I/O	H
50	P63	IF WIDE/NARROW Display output		O	H
51	P40	Function Muting	FMUTE	O	L
52	P41	Motor Volume UP	VOL+	O	H
53	P42	Motor Volume DOWN	VOL−	O	H
54	P43	Speaker Relay	SP. RY	O	H
55	PP0	Power Relay	POW. RY	O	H
56	X1	Ceramic Oscillator		−	−
57	X2	Ceramic Oscillator		−	−
58	Vss	Micro Computer GND		−	−
59	XT1	−		−	−
60	XT2	−		−	−
61	P50	P50	Key Scan Input	I	H
62	P51	P51	Key Scan Input	I	H
63	P52	P52	Key Scan Input	I	H
64	P53	P53	Key Scan Input	I	H

SECTION 4
EXPLODED VIEWS

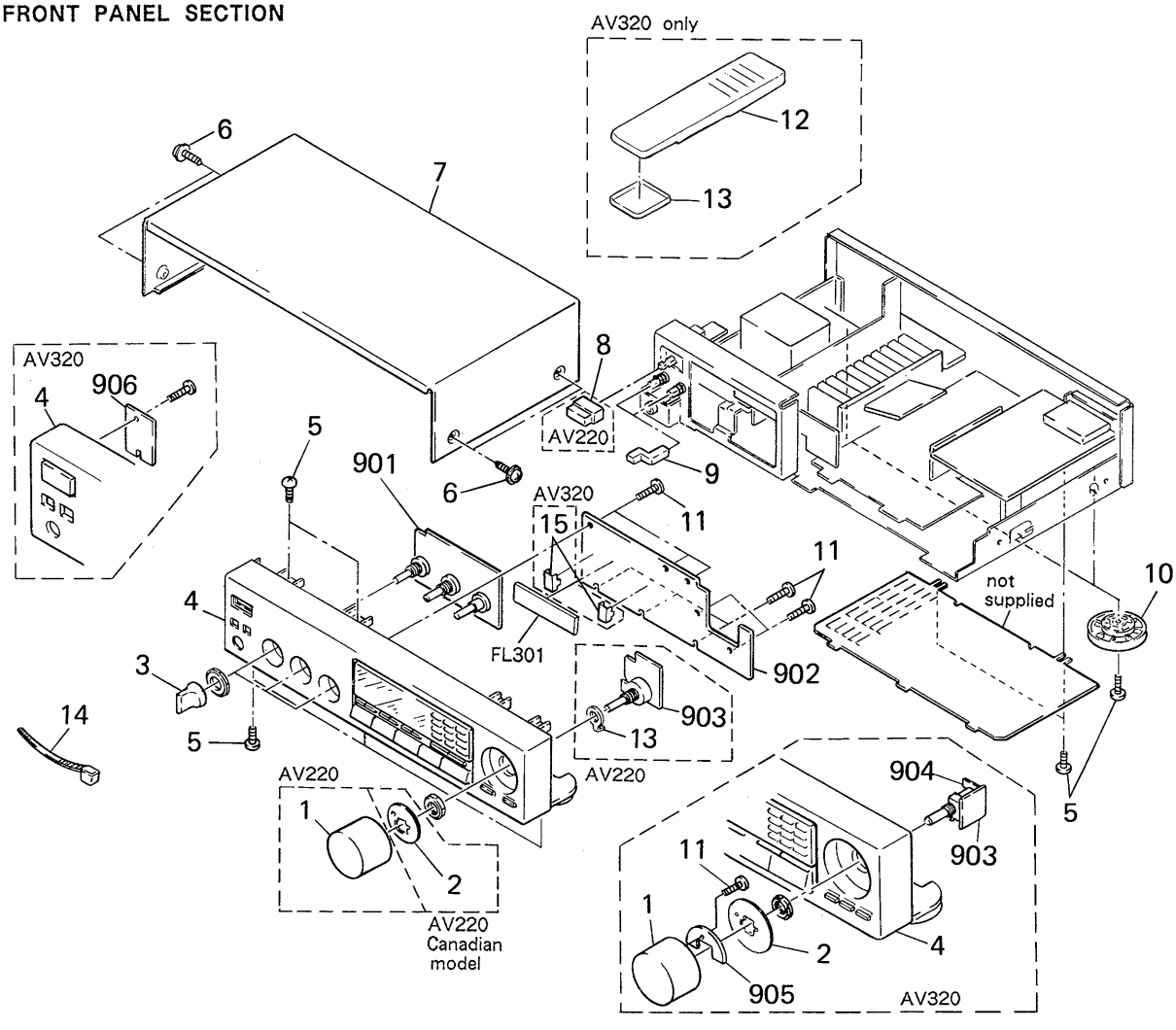
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

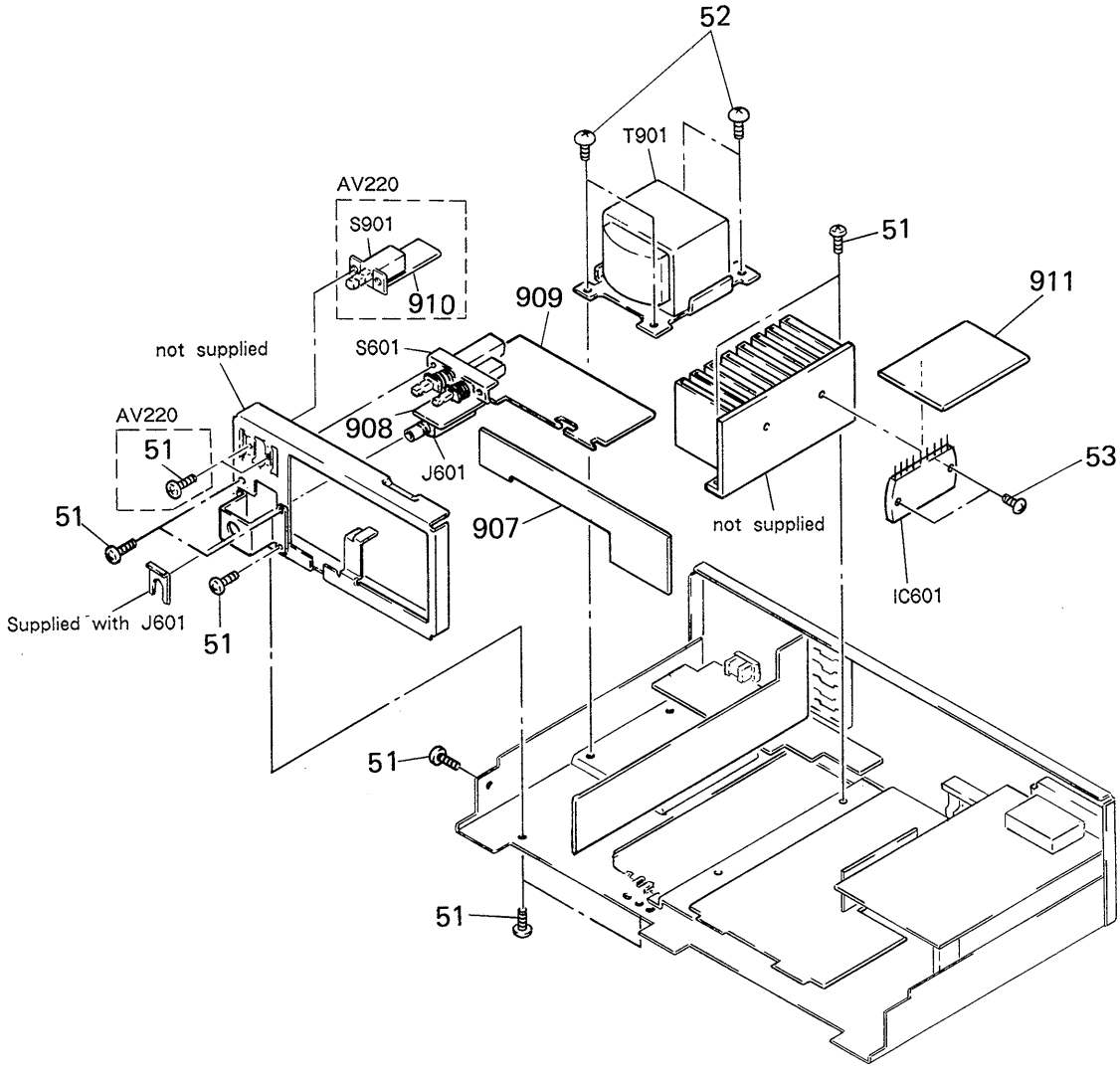
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

(1) FRONT PANEL SECTION



No.	Part No.	Description	Remarks
1	4-925-121-01	(AV320)...KNOB (V2)	
	4-925-121-71	(AV220)...KNOB (V2)	
2	*4-931-603-01	SPACER	
3	4-916-745-01	KNOB (DIA.21)	
4	X-4906-829-1	(AV320)...PANEL ASSY, FRONT	
	X-4906-830-1	(AV220)...PANEL ASSY, FRONT	
5	7-682-548-05	SCREW +BVTT 3X8 (S)	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	4-925-066-01	CASE	
8	3-354-912-01	(AV220:US).....KNOB, POWER	
	4-917-460-01	(AV220:Canadian)...KNOB, POWER	
9	4-906-872-01	KNOB, SQUARE	
10	X-4885-950-1	FOOT ASSY	
11	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
12	1-465-423-11	REMOTE COMMANDER (RM-S103)	
13	2-181-754-01	(AV320)...COVER, BATTERY	
14	3-701-748-00	CLAMP	
15	*4-924-989-01	HOLDER (FL TUBE)	
901	*A-4334-398-A	(AV320)...MOUNTED PCB, TONE	
	*A-4334-413-A	(AV220)...MOUNTED PCB, TONE	
902	*A-4334-395-A	(AV320)...MOUNTED PCB, DISPLAY	
	*A-4334-467-A	(AV220)...MOUNTED PCB, DISPLAY	
903	*1-634-063-11	PC BOARD, VOLUME	
905	*1-634-064-11	(AV320)...PC BOARD, LED	
906	*1-634-062-11	(AV320)...PC BOARD, SYSTEM POWER	
FL301	1-519-509-11	INDICATOR TUBE, FLUORESCENT	

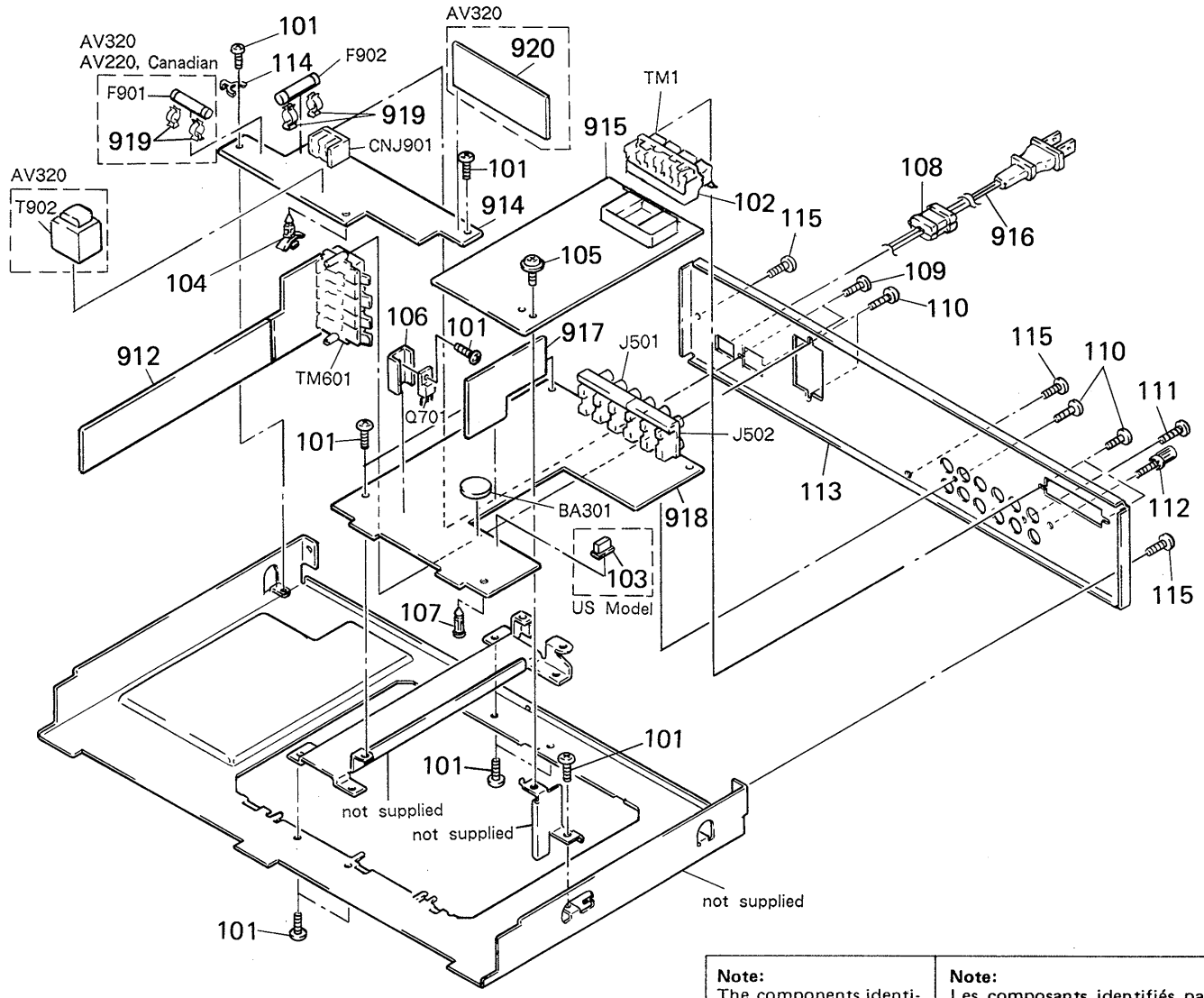
(2) CHASSIS SECTION-1



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
51	7-682-548-04	SCREW +BVTT 3X8 (S)	
52	7-682-560-04	SCREW +BVTT 4X6 (S)	
53	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
904	*1-634-061-11	(AV320)...PC BOARD, MOTOR	
907	*1-634-067-11	(AV220)...PC BOARD, RELAY (3)	
908	*1-634-070-11	PC BOARD, HEADPHONE	
909	*1-634-069-11	PC BOARD, SPEAKER SWITCH	
910	*1-634-072-11	(AV220)...PC BOARD, POWER SWITCH	
911	*1-634-060-11	PC BOARD, IC	
IC601 ⚠	8-749-900-24	(AV220)...IC STK4182MK2	
IC601 ⚠	8-749-900-34	(AV320)...IC STK4182MK2	
J601	1-507-863-51	JACK, LARGE TYPE (HEADPHOHES)	
S601	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKER A)	
S602	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKER B)	
S901 ⚠	1-554-920-11	(AV220)...SWITCH, PUSH (AC POWER)(1 KEY)	
T901 ⚠	1-449-965-11	(AV220)...TRANSFORMER, POWER	
T901 ⚠	1-449-966-11	(AV320)...TRANSFORMER, POWER	

(3) CHASSIS SECTION-2



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
101	7-682-548-04	SCREW +BVTT 3X8 (S)	
102	*4-924-988-11	PLATE (ST), GROUND	
103	*1-565-514-11	(US)....SOCKET, CONNECTOR 2P	
104	*3-346-265-11	HOLDER, PC BOARD	
105	2-383-566-00	SCREW	
106	*4-880-403-11	HEAT SINK	
107	*3-669-610-00	SPACER	
108	*3-703-244-00	BUSHING (2104), CORD	
109	7-685-647-79	SCREW +BTP 3X10 TYPE2 N-S	
110	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
111	7-621-849-00	SCREW, TAPPING	
112	3-706-165-00	SCREW	
113	*4-931-096-01	(AV320:US)...PANEL, BACK	
	*4-931-096-11	(AV220:US)...PANEL, BACK	
	*4-931-096-21	(AV320:Canadian)...PANEL, BACK	
	*4-931-096-31	(AV220:Canadian)...PANEL, BACK	
114	*4-904-446-01	PLATE, GROUND	
115	7-682-548-09	SCREW +BVTT 3X8 (S)	
912	*1-634-073-11	PC BOARD, RELAY (4)	
913	*1-634-071-11	PC BOARD, SP TERMINAL	
914	*1-634-068-11	PC BOARD, POWER	
915	*A-4303-279-A	MOUNTED PCB, TUNER (TCB007-21K2)	
916	⚠1-557-577-11	CORD, POWER	
917	*1-634-065-11	PC BOARD, RELAY (1)	
918	*A-4334-394-A	(AV320)...MOUNTED PCB, MAIN	
	*A-4334-410-A	(AV220)...MOUNTED PCB, MAIN	
919	1-533-183-11	HOLDER, FUSE	
920	*1-634-066-11	(AV320)...PC BOARD, RELAY (2)	
BA301	1-528-120-00	BATTERY, LITHIUM (CR-2025)	
CNJ901	⚠1-540-058-11	OUTLET, AC (POLAR)	
F901	⚠1-532-970-11	FUSE, GLASS TUBE (3A/125V)	
F902	⚠1-576-029-11	FUSE, GLASS TUBE (4A/125V)	
J501	1-565-320-11	JACK, PIN 6P	
J502	1-565-320-11	JACK, PIN 6P	
Q701	8-729-107-25	TRANSISTOR 2SD1585-L	
T902	⚠1-448-517-21	(AV320)...TRANSFORMER, POWER	
TM601	1-536-706-00	TERMINAL BOARD (SPEAKER)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

• TUNER BOARD

Ref.No.	Part No.	Description			
C1	1-162-294-31	CERAMIC CHIP	0.001MF	20%	25V
C2	1-124-477-11	ELECT	47MF	20%	16V
C3	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C4	1-162-294-31	CERAMIC CHIP	0.001MF	20%	25V
C5	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C6	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C9	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C10	1-162-516-11	CERAMIC CHIP	100PF	10%	50V
C21	1-101-006-00	CERAMIC	0.047MF	10%	50V
C22	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C23	1-124-477-11	ELECT	47MF	20%	16V
C24	1-123-382-00	ELECT	3.3MF	20%	50V
C25	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C26	1-163-019-00	CERAMIC CHIP	0.0068MF	20%	12V
C27	1-162-516-11	CERAMIC CHIP	100PF	10%	50V
C28	1-124-499-11	ELECT	1.0MF	20%	50V
C29	1-162-516-11	CERAMIC CHIP	100PF	10%	50V
C30	1-124-499-11	ELECT	1.0MF	20%	50V
C31	1-124-902-00	ELECT	0.47MF	20%	50V
C32	1-124-463-00	ELECT	0.1MF	20%	50V
C33	1-130-482-00	PE TEREPHTHALATE	0.0082MF	5%	50V
C34	1-123-382-00	ELECT	3.3MF	20%	50V
C35	1-130-482-00	PE TEREPHTHALATE	0.0082MF	5%	50V
C36	1-123-382-00	ELECT	3.3MF	20%	50V
C37	1-123-875-11	ELECT	10MF	20%	50V
C39	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C40	1-124-463-00	ELECT	0.1MF	20%	50V
C41	1-124-927-11	ELECT	4.7MF	20%	50V
C42	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C43	1-126-176-11	ELECT	220MF	20%	10V
C44	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C45	1-123-382-00	ELECT	3.3MF	20%	50V
C46	1-161-375-00	CERAMIC CHIP	0.0022MF	20%	25V
C48	1-123-382-00	ELECT	3.3MF	20%	50V
C49	1-161-375-00	CERAMIC CHIP	0.0022MF	20%	25V
C51	1-124-477-11	ELECT	47MF	20%	16V
C61	1-163-063-00	CERAMIC MELF	0.022MF		25V
C62	1-163-063-00	CERAMIC MELF	0.022MF		25V
C63	1-163-063-00	CERAMIC MELF	0.022MF		25V
C64	1-163-063-00	CERAMIC MELF	0.022MF		25V
C81	1-102-961-00	CERAMIC	27PF	5%	50V
C82	1-102-961-00	CERAMIC	27PF	5%	50V

Ref.No.	Part No.	Description			
C83	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C84	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C85	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C86	1-124-477-11	ELECT	47MF	20%	16V
C87	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C88	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C101	1-124-925-11	ELECT	2.2MF	20%	50V
C102	1-124-463-00	ELECT	0.1MF	20%	50V
C103	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C104	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C105	1-124-477-11	ELECT	47MF	20%	16V
CC2	1-249-366-11	CARBON MELF	0	5%	1/5W
CC3	1-249-366-11	CARBON MELF	0	5%	1/5W
CC11	1-249-366-11	CARBON MELF	0	5%	1/5W
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
CF21	1-577-075-11	OSCILLATOR, CERAMIC			
CFT21	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)			
CNJ1	*1-568-276-11	SOCKET, CONNECTOR 10P			
CNJ2	1-568-269-11	SOCKET, CONNECTOR 3P			
CNJ4	1-568-307-11	SOCKET, CONNECTOR 3P			
FE1	1-463-857-11	FRONT END (FM)			
FE61	1-236-461-11	ENCAPSULATED COMPONENT			
IC21	8-759-821-45	IC LA1851N			
IC81	8-759-820-91	IC LC7218			
L1	1-410-645-31	MICRO INDUCTOR	100UH	10%	
L21	1-410-171-11	MICRO INDUCTOR	1MMH	10%	
LPF21	1-235-164-00	FILTER, LOW PASS			
LPF22	1-235-164-00	FILTER, LOW PASS			
Q1	8-729-230-99	TRANSISTOR 2SC2669-OY			
Q2	8-729-230-99	TRANSISTOR 2SC2669-OY			
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q22	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q23	8-729-900-61	TRANSISTOR DTA114ES			
Q24	8-729-900-80	TRANSISTOR DTC114ES			
Q81	8-729-900-61	TRANSISTOR DTA114ES			
Q82	8-729-900-80	TRANSISTOR DTC114ES			
Q83	8-729-202-67	TRANSISTOR 2SK246GR3			
Q84	8-729-230-93	TRANSISTOR 2SC3113AB			

Ref.No.	Part No.	Description				
R1	⚠1-249-401-11	CARBON(SMALL)	47	5%	1/4W	F
R3	1-249-329-11	CARBON MELF	330	5%	1/8W	
R4	1-249-329-11	CARBON MELF	330	5%	1/8W	
R5	1-249-329-11	CARBON MELF	330	5%	1/8W	
R6	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R7	1-249-329-11	CARBON MELF	330	5%	1/8W	
R8	1-249-332-11	CARBON MELF	560	5%	1/8W	
R9	1-249-352-11	CARBON MELF	27K	5%	1/8W	
R21	⚠1-249-404-00	CARBON(SMALL)	82	5%	1/4W	F
R22	1-249-248-11	CARBON(SMALL)	8.2K	5%	1/4W	
R23	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R24	1-249-353-11	CARBON MELF	33K	5%	1/8W	
R25	1-249-346-11	CARBON MELF	8.2K	5%	1/8W	
R27	1-249-432-11	CARBON(SMALL)	18K	5%	1/4W	
R28	1-249-423-11	CARBON(SMALL)	3.3K	5%	1/4W	
R29	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R31	1-249-331-11	CARBON MELF	470	5%	1/8W	
R32	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R33	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R35	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R36	1-249-429-11	CARBON(SMALL)	10K	5%	1/4W	
R37	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R38	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R39	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R40	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R41	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R42	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R43	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R44	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R45	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R46	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R47	⚠1-249-409-11	CARBON(SMALL)	220	5%	1/4W	F
R48	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R49	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R61	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R62	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R63	1-249-315-11	CARBON MELF	22	5%	1/8W	
R81	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R82	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R83	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R84	1-249-335-11	CARBON MELF	1K	5%	1/8W	

Ref.No.	Part No.	Description				
R85	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R86	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R87	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R88	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R89	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R90	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R91	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R92	⚠1-249-401-11	CARBON(SMALL)	47	5%	1/4W	F
R101	1-249-341-11	CARBON MELF	3.3K	5%	1/8W	
R102	1-249-332-11	CARBON MELF	560	5%	1/8W	
R103	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R104	1-249-328-11	CARBON MELF	270	5%	1/8W	
R105	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R106	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R107	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R108	1-249-323-11	CARBON MELF	100	5%	1/8W	
R109	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R110	⚠1-249-405-11	CARBON(SMALL)	100	5%	1/4W	F
RV21	1-238-013-11	RES, ADJ, CARBON 2.2K (FM SEP)				
RV23	1-238-021-11	RES, ADJ, CARBON 220K (AM METER)				
RV24	1-238-017-11	RES, ADJ, CARBON 22K (FM TUNING)				
T21	1-404-852-11	COIL, DISCRIMINATOR (PRIMARY)				
TM1	*1-537-225-11	TERMINAL BOARD (ANT (F) TYPE)				
TP1	*1-560-060-00	PIN, CONNECTOR 2P				
XT81	1-577-126-11	VIBRATOR, CRYSTAL 7.2MHz				

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• EXCEPT FOR TUNER BOARD

Ref.No.	Part No.	Description
901	*A-4334-398-A	(AV320)...MOUNTED PCB, TONE
	*A-4334-413-A	(AV220)...MOUNTED PCB, TONE
902	*A-4334-395-A	(AV320)...MOUNTED PCB, DISPLAY
	*A-4334-467-A	(AV220)...MOUNTED PCB, DISPLAY
903	*1-634-063-11	PC BOARD, VOLUME
904	*1-634-061-11	(AV320)...PC BOARD, MOTOR
905	*1-634-064-11	(AV320)...PC BOARD, LED
906	*1-634-062-11	(AV320)...PC BOARD, SYSTEM POWER
907	*1-634-067-11	(AV220)...PC BOARD, RELAY (3)
908	*1-634-070-11	PC BOARD, HEADPHONE
909	*1-634-069-11	PC BOARD, SPEAKER SWITCH
910	*1-634-072-11	(AV220)...PC BOARD, POWER SWITCH
911	*1-634-060-11	PC BOARD, IC
912	*1-634-073-11	PC BOARD, RELAY (4)
913	*1-634-071-11	PC BOARD, SP TERMINAL
914	*1-634-068-11	PC BOARD, POWER
915	*A-4303-279-A	MOUNTED PCB, TUNER (TCB007-21K2)
916	⚠1-557-577-11	CORD, POWER
917	*1-634-065-11	PC BOARD, RELAY (1)
918	*A-4334-394-A	(AV320)...MOUNTED PCB, MAIN
	*A-4334-410-A	(AV220)...MOUNTED PCB, MAIN
919	1-533-183-11	HOLDER, FUSE
920	*1-634-066-11	(AV320)...PC BOARD, RELAY (2)
BA301	1-528-120-00	BATTERY, LITHIUM (CR-2025)

C301	1-162-211-31	CERAMIC	33PF	5%	50V
C302	1-162-211-31	CERAMIC	33PF	5%	50V
C303	1-161-055-00	CERAMIC	0.022MF	10%	50V
C304	1-161-055-00	CERAMIC	0.022MF	10%	50V
C306	1-123-875-11	(AV320)...ELECT	10MF	20%	50V
C307	1-136-746-11	FILM	1MF	5%	50V
C308	1-124-464-11	(AV320)...ELECT	0.22MF	20%	50V
C309	1-124-464-11	(AV320)...ELECT	0.22MF	20%	50V
C401	1-102-106-00	CERAMIC	100PF	10%	50V
C402	1-123-382-00	ELECT	3.3MF	20%	50V
C403	1-102-106-00	CERAMIC	100PF	10%	50V
C404	1-102-106-00	CERAMIC	100PF	10%	50V
C405	1-124-963-11	ELECT	33MF	20%	16V
C406	1-130-480-00	MYLAR	0.0056MF	5%	50V
C407	1-130-473-00	MYLAR	0.0015MF	5%	50V
C408	1-123-382-00	ELECT	3.3MF	20%	50V
C409	1-124-477-11	ELECT	47MF	20%	25V
C410	1-124-477-11	ELECT	47MF	20%	25V
C411	1-102-074-00	CERAMIC	0.001MF	10%	50V
C412	1-102-106-00	CERAMIC	100PF	10%	50V
C413	1-124-927-11	ELECT	4.7MF	20%	50V

Ref.No.	Part No.	Description			
C414	1-123-382-00	ELECT	3.3MF	20%	50V
C415	1-123-382-00	ELECT	3.3MF	20%	50V
C416	1-123-875-11	ELECT	10MF	20%	50V
C417	1-124-478-11	ELECT	100MF	20%	25V
C418	1-124-478-11	ELECT	100MF	20%	25V
C419	1-124-478-11	ELECT	100MF	20%	25V
C451	1-102-106-00	CERAMIC	100PF	10%	50V
C452	1-123-382-00	ELECT	3.3MF	20%	50V
C453	1-102-106-00	CERAMIC	100PF	10%	50V
C454	1-102-106-00	CERAMIC	100PF	10%	50V
C455	1-124-963-11	ELECT	33MF	20%	16V
C456	1-130-480-00	MYLAR	0.0056MF	5%	50V
C457	1-130-473-00	MYLAR	0.0015MF	5%	50V
C458	1-123-382-00	ELECT	3.3MF	20%	50V
C463	1-124-927-11	ELECT	4.7MF	20%	50V
C464	1-123-382-00	ELECT	3.3MF	20%	50V
C465	1-123-382-00	ELECT	3.3MF	20%	50V
C466	1-123-875-11	ELECT	10MF	20%	50V
C501	1-130-489-00	MYLAR	0.033MF	5%	50V
C502	1-124-250-00	ELECT	0.15MF	20%	50V
C503	1-130-481-00	MYLAR	0.0068MF	5%	50V
C504	1-130-489-00	MYLAR	0.033MF	5%	50V
C505	1-124-927-11	ELECT	4.7MF	20%	50V
C506	1-124-925-11	ELECT	2.2MF	20%	50V
C507	1-101-880-00	CERAMIC	47PF	10%	50V
C508	1-124-927-11	ELECT	4.7MF	20%	50V
C509	1-131-347-00	TANTALUM	1MF	10%	25V
C510	1-130-489-00	MYLAR	0.033MF	5%	50V
C511	1-124-791-11	(AV320)...ELECT	1MF	20%	50V
C512	1-124-464-11	ELECT	0.22MF	20%	50V
C513	1-124-464-11	ELECT	0.22MF	20%	50V
C514	1-130-493-00	MYLAR	0.068MF	5%	50V
C515	1-102-106-00	CERAMIC	100PF	10%	50V
C551	1-130-489-00	MYLAR	0.033MF	5%	50V
C552	1-124-250-00	ELECT	0.15MF	20%	50V
C553	1-130-481-00	MYLAR	0.0068MF	5%	50V
C554	1-130-489-00	MYLAR	0.033MF	5%	50V
C555	1-124-927-11	ELECT	4.7MF	20%	50V
C556	1-124-925-11	ELECT	2.2MF	20%	50V
C557	1-101-880-00	CERAMIC	47PF	10%	50V
C558	1-124-927-11	ELECT	4.7MF	20%	50V
C559	1-131-347-00	TANTALUM	1MF	10%	25V
C560	1-130-489-00	MYLAR	0.033MF	5%	50V
C561	1-124-791-11	(AV320)...ELECT	1MF	20%	50V
C565	1-102-106-00	CERAMIC	100PF	10%	50V
C601	1-162-286-31	CERAMIC	220PF	10%	50V

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Ref.No.	Part No.	Description			
C602	1-124-927-11	ELECT	4.7MF	20%	50V
C603	1-162-288-31	CERAMIC	330PF	10%	50V
C604 ⚠	1-124-122-11	ELECT	100MF	20%	50V
C605 ⚠	1-124-910-11	ELECT	47MF	20%	50V
C606 ⚠	1-124-120-11	ELECT	220MF	20%	16V
C607	1-162-193-31	CERAMIC	3.3PF	10%	50V
C608	1-123-875-11	ELECT	10MF	20%	50V
C618	1-161-055-00	CERAMIC	0.022MF	10%	25V
C621	1-130-495-00	MYLAR	0.1MF	5%	50V
C622	1-130-491-00	MYLAR	0.047MF	5%	50V
C623	1-123-875-11	ELECT	10MF	20%	50V
C624	1-124-472-11	ELECT	470MF	20%	6.3V
C651	1-162-286-31	CERAMIC	220PF	10%	50V
C652	1-124-927-11	ELECT	4.7MF	20%	50V
C653	1-162-288-31	CERAMIC	330PF	10%	50V
C654 ⚠	1-124-122-11	ELECT	100MF	20%	50V
C655 ⚠	1-124-910-11	ELECT	47MF	20%	50V
C656 ⚠	1-124-120-11	ELECT	220MF	20%	16V
C657	1-162-193-31	CERAMIC	3.3PF	10%	50V
C658	1-123-875-11	ELECT	10MF	20%	50V
C668	1-161-055-00	CERAMIC	0.022MF	10%	25V
C671	1-130-495-00	MYLAR	0.1MF	5%	50V
C672	1-130-491-00	MYLAR	0.047MF	5%	50V
C701	1-106-367-00	MYLAR	0.01MF	5%	200V
C702	1-106-367-00	MYLAR	0.01MF	5%	200V
C704	1-124-478-11	ELECT	100MF	20%	25V
C705	1-124-477-11	ELECT	47MF	20%	25V
C706	1-161-055-00	CERAMIC	0.022MF	10%	50V
C707	1-161-055-00	CERAMIC	0.022MF	10%	50V
C708	1-124-927-11	ELECT	4.7MF	20%	50V
C710	1-124-910-11	ELECT	47MF	20%	50V
C711	1-124-910-11	ELECT	47MF	20%	50V
C712	1-123-875-11	ELECT	10MF	20%	50V
C713	1-124-477-11	ELECT	47MF	20%	25V
C714	1-124-477-11	ELECT	47MF	20%	25V
C716	1-124-464-11	ELECT	0.22MF	20%	50V
C717	1-124-902-00	ELECT	0.47MF	20%	50V
C718	1-124-791-11	ELECT	1MF	20%	50V
C719	1-161-055-00	CERAMIC	0.022MF	10%	50V
C801 ⚠	1-126-307-11	ELECT	6800MF	20%	50V
C802 ⚠	1-126-307-11	ELECT	6800MF	20%	50V
C803	1-106-367-00	(AV320)...MYLAR	0.01MF	5%	200V
C804	1-106-367-00	(AV320)...MYLAR	0.01MF	5%	200V
C805	1-124-557-11	(AV320)...ELECT	1000MF	20%	25V
C810	1-124-791-11	ELECT	1MF	20%	50V
C820	1-124-477-11	(AV220)...ELECT	47MF	20%	25V
C901	1-161-744-00	CERAMIC	0.01MF		400V
CN305	*1-564-777-11	(AV320)...PLUG, CONNECTOR (2.5MM) 2P			
CN401	*1-564-779-11	PLUG, CONNECTOR (2.5MM) 6P			
CN801	*1-535-140-00	BASE POST 19MM (10MM PITCH) 3P			
CNJ201	*1-569-411-11	SOCKET,CONNECTOR (PC BOARD)16P			
CNJ301	*1-562-334-00	SOCKET, CONNECTOR 10P			
CNJ302	*1-562-334-00	SOCKET, CONNECTOR 10P			
CNJ303	*1-506-778-11	PLUG, CONNECTOR (2.5MM) 2P			
CNJ304	*1-506-680-11	PLUG, CONNECTOR (2.5MM) 3P			
CNJ305	*1-506-778-11	PLUG, CONNECTOR (2.5MM) 2P			
CNJ503	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P			

Ref.No.	Part No.	Description
CNJ504	*1-506-707-31	PLUG, CONNECTOR (2.5MM) 3P
CNJ601	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P
CNJ610	*1-569-509-11	CONNECTOR (SOCKET) 4P
CNJ611	*1-562-573-11	SOCKET, CONNECTOR 8P
CNJ701	*1-569-509-11	(AV320)...CONNECTOR (SOCKET) 4P
CNJ802	*1-569-509-11	CONNECTOR (SOCKET) 4P
CNJ901 ⚠	1-540-058-11	OUTLET, AC (POLAR)
CNP301	1-565-419-11	PIN, CONNECTOR 10P
CNP302	1-565-419-11	PIN, CONNECTOR 10P
CNP303	*1-564-777-11	(AV320)...PLUG, CONNECTOR (2.5MM) 2P
CNP611	*1-569-508-11	PIN, CONNECTOR 8P
CNP650	*1-569-410-11	PIN, CONNECTOR (PC BOARD) 16P
CNP651	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CNP652	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CNP653	*1-569-395-11	PIN, CONNECTOR (PC BOARD) 10P
CNP654	*1-506-529-11	PIN CONNECTOR, B-B 4P
CNP655	*1-506-529-11	PIN CONNECTOR, B-B 4P
CNP656	*1-506-529-11	PIN CONNECTOR, B-B 4P
CNP657	*1-506-529-11	PIN CONNECTOR, B-B 4P
CNP701	*1-535-116-00	TERMINAL
CNP702	*1-535-116-00	TERMINAL
CNP802	*1-535-139-00	(AV220)..BASE POST 19MM(10MM PITCH) 2P
D301	8-719-912-20	DIODE 1SS120
D302	8-719-912-20	DIODE 1SS120
D303	8-719-912-20	DIODE 1SS120
D304	8-719-912-20	DIODE 1SS120
D305	8-719-912-20	DIODE 1SS120
D306	8-719-912-20	DIODE 1SS120
D307	8-719-912-20	DIODE 1SS120
D308	8-719-912-20	DIODE 1SS120
D309	8-719-912-20	DIODE 1SS120
D311	8-719-912-20	DIODE 1SS120
D312	8-719-912-20	DIODE 1SS120
D313	8-719-914-11	DIODE HZ4ALL
D314	8-719-912-20	DIODE 1SS120
D315	8-719-912-20	DIODE 1SS120
D317	8-719-301-52	(AV320)...DIODE SEL2810A-C (MUTING)
D318	8-719-301-52	DIODE SEL2810A-C (SURROUND)
D319	8-719-301-52	DIODE SEL2810A-C (DBFB)
D320	8-719-912-20	DIODE 1SS120
D324	8-719-912-20	DIODE 1SS120
D325	8-719-912-20	DIODE 1SS120
D326	8-719-912-20	DIODE 1SS120
D327	8-719-912-20	DIODE 1SS120
D328	8-719-303-00	(AV320)...DIODE SEL2510C(VOLUME)
D401	8-719-912-20	DIODE 1SS120
D402	8-719-912-20	DIODE 1SS120
D501	8-719-912-20	DIODE 1SS120
D502	8-719-912-20	DIODE 1SS120
D601	8-719-912-20	DIODE 1SS120
D602	8-719-912-20	DIODE 1SS120
D603	8-719-912-20	DIODE 1SS120
D604	8-719-912-20	DIODE 1SS120
D605	8-719-912-20	DIODE 1SS120
D651	8-719-912-20	DIODE 1SS120
D702	8-719-010-86	DIODE UZ-16BSB
D703	8-719-010-29	DIODE UZ-4.3BSB
D704	8-719-011-07	DIODE UZ-27BSB

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Ref.No.	Part No.	Description
D705	8-719-010-82	DIODE UZ-15BSB
D706	8-719-010-47	DIODE UZ-6.2BSC
D707	8-719-933-41	DIODE HZS6C3L
D708	8-719-914-11	DIODE HZ4ALL
D709	8-719-912-20	DIODE 1SS120
D710	8-719-912-20	DIODE 1SS120
D801	8-719-312-09	DIODE RBA-402
D802	8-719-511-40	(AV320)...DIODE S1VB40
D803	8-719-912-20	(AV320)...DIODE 1SS120
D813 ⚠	8-719-000-06	DIODE MC921
F901 ⚠	1-532-970-11	FUSE, GLASS TUBE (3A/125V)
F902 ⚠	1-576-029-11	FUSE, GLASS TUBE (4A/125V)
FL301	1-519-509-11	INDICATOR TUBE, FLUORESCENT
IC301	8-759-146-04	IC UPD75206G-553-1B
IC302	8-749-920-59	(AV320)...IC A1QH3020S
IC304	8-759-820-62	(AV320)...IC LB1639
IC401	8-759-112-93	IC UPC4570HA-1
IC402	8-759-805-14	IC LC7822
IC501	8-759-112-93	IC UPC4570HA-1
IC601⚠	8-749-900-24	(AV220)...IC STK4162MK2
IC601⚠	8-749-900-34	(AV320)...IC STK4182MK2
J501	1-565-320-11	JACK, PIN 6P
J502	1-565-320-11	JACK, PIN 6P
J601	1-507-863-51	JACK, LARGE TYPE (HEADPHOHES)
L301	1-410-521-11	INDUCTOR 100UH
L601	*1-420-872-00	COIL, AIR CORE
L651	*1-420-872-00	COIL, AIR CORE
Q302	8-729-900-36	(AV320)...TRANSISTOR DTC124ES
Q303	8-729-900-36	TRANSISTOR DTC124ES
Q304	8-729-900-36	TRANSISTOR DTC124ES
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q402	8-729-620-05	TRANSISTOR 2SC2603-EF
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q451	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q452	8-729-620-05	TRANSISTOR 2SC2603-EF
Q501	8-729-202-67	TRANSISTOR 2SK246GR3
Q502	8-729-620-05	TRANSISTOR 2SC2603-EF
Q503	8-729-141-30	(AV320)...TRANSISTOR 2SC3623A-LK
Q504	8-729-202-67	TRANSISTOR 2SK246GR3
Q505	8-729-900-36	TRANSISTOR DTC124ES
Q506	8-729-900-63	TRANSISTOR DTA124ES
Q551	8-729-202-67	TRANSISTOR 2SK246GR3
Q552	8-729-620-05	TRANSISTOR 2SC2603-EF
Q553	8-729-141-30	(AV320)...TRANSISTOR 2SC3623A-LK
Q601	8-729-108-14	TRANSISTOR 2SA988-F
Q602	8-729-620-05	TRANSISTOR 2SC2603-EF
Q603	8-729-620-05	TRANSISTOR 2SC2603-EF
Q604	8-729-620-05	TRANSISTOR 2SC2603-EF
Q605	8-729-620-05	TRANSISTOR 2SC2603-EF
Q651	8-729-108-14	TRANSISTOR 2SA988-F
Q701	8-729-107-25	TRANSISTOR 2SD1585-L
Q702	8-729-113-34	TRANSISTOR 2SB734-5
Q703	8-729-180-92	TRANSISTOR 2SD809-K
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF
Q705	8-729-115-22	TRANSISTOR BN1A3Q
Q706	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q707	8-729-620-05	TRANSISTOR 2SC2603-EF

Ref.No.	Part No.	Description
Q708	8-729-900-36	TRANSISTOR DTC124ES
Q709	8-729-620-05	(AV320)...TRANSISTOR 2SC2603-EF
Q801	8-729-620-05	(AV320)...TRANSISTOR 2SC2603-EF
R301	1-249-411-11	CARBON 330 5% 1/4W
R302	1-249-411-11	CARBON 330 5% 1/4W
R303	1-249-411-11	CARBON 330 5% 1/4W
R304	1-249-411-11	CARBON 330 5% 1/4W
R305	1-249-429-11	CARBON 10K 5% 1/4W
R306	1-249-429-11	CARBON 10K 5% 1/4W
R307	1-249-429-11	CARBON 10K 5% 1/4W
R308	1-249-429-11	CARBON 10K 5% 1/4W
R311	1-249-429-11	CARBON 10K 5% 1/4W
R312	1-249-431-11	CARBON 15K 5% 1/4W
R313	1-249-417-11	CARBON 1K 5% 1/4W
R314	1-249-441-11	CARBON 100K 5% 1/4W
R315	1-249-437-11	CARBON 47K 5% 1/4W
R316	1-249-441-11	CARBON 100K 5% 1/4W
R322	1-249-410-11	(AV320)...CARBON 270 5% 1/4W
R323	1-249-410-11	CARBON 270 5% 1/4W
R324	1-249-410-11	CARBON 270 5% 1/4W
R325	1-249-441-11	CARBON 100K 5% 1/4W
R337	1-249-437-11	CARBON 47K 5% 1/4W
R338	1-249-437-11	CARBON 47K 5% 1/4W
R339	1-249-393-11	(AV320)...CARBON 10 5% 1/4W
R401	1-249-411-11	CARBON 330 5% 1/4W
R402	1-249-417-11	CARBON 1K 5% 1/4W
R403	1-249-417-11	CARBON 1K 5% 1/4W
R404	1-249-425-11	CARBON 4.7K 5% 1/4W
R405	1-249-417-11	CARBON 1K 5% 1/4W
R406	1-249-425-11	CARBON 4.7K 5% 1/4W
R407	1-247-897-11	CARBON 560K 5% 1/4W
R408	1-247-897-11	CARBON 560K 5% 1/4W
R409	1-249-437-11	CARBON 47K 5% 1/4W
R410	1-247-897-11	CARBON 560K 5% 1/4W
R411	1-249-416-11	CARBON 820 5% 1/4W
R412	1-247-897-11	CARBON 560K 5% 1/4W
R413	1-249-437-11	CARBON 47K 5% 1/4W
R414	1-247-897-11	CARBON 560K 5% 1/4W
R415	1-249-417-11	CARBON 1K 5% 1/4W
R416	1-249-411-11	CARBON 330 5% 1/4W
R417	1-249-411-11	CARBON 330 5% 1/4W
R418	1-249-425-11	CARBON 4.7K 5% 1/4W
R419	1-249-425-11	CARBON 4.7K 5% 1/4W
R420	1-249-437-11	CARBON 47K 5% 1/4W
R421	1-247-901-11	CARBON 820K 5% 1/4W
R422	1-249-425-11	CARBON 4.7K 5% 1/4W
R423	1-249-441-11	CARBON 100K 5% 1/4W
R424	1-249-421-11	CARBON 2.2K 5% 1/4W
R425	1-249-441-11	CARBON 100K 5% 1/4W
R426	1-249-405-11	CARBON 100 5% 1/4W
R451	1-249-411-11	CARBON 330 5% 1/4W
R452	1-249-417-11	CARBON 1K 5% 1/4W
R453	1-249-417-11	CARBON 1K 5% 1/4W
R454	1-249-425-11	CARBON 4.7K 5% 1/4W
R455	1-249-417-11	CARBON 1K 5% 1/4W
R456	1-249-425-11	CARBON 4.7K 5% 1/4W
R457	1-247-897-11	CARBON 560K 5% 1/4W

Note:
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Ref.No.	Part No.	Description			
R458	1-247-897-11	CARBON	560K	5%	1/4W
R459	1-249-437-11	CARBON	47K	5%	1/4W
R460	1-247-897-11	CARBON	560K	5%	1/4W
R461	1-249-416-11	CARBON	820	5%	1/4W
R462	1-247-897-11	CARBON	560K	5%	1/4W
R463	1-249-437-11	CARBON	47K	5%	1/4W
R464	1-247-897-11	CARBON	560K	5%	1/4W
R465	1-249-417-11	CARBON	1K	5%	1/4W
R469	1-249-425-11	CARBON	4.7K	5%	1/4W
R470	1-249-437-11	CARBON	47K	5%	1/4W
R471	1-247-901-11	CARBON	820K	5%	1/4W
R472	1-249-425-11	CARBON	4.7K	5%	1/4W
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-421-11	CARBON	2.2K	5%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W
R504	1-249-427-11	CARBON	6.8K	5%	1/4W
R505	1-249-438-11	CARBON	56K	5%	1/4W
R506	1-249-441-11	CARBON	100K	5%	1/4W
R507	1-247-883-00	CARBON	150K	5%	1/4W
R508	1-249-417-11	CARBON	1K	5%	1/4W
R509	1-249-412-11	CARBON	390	5%	1/4W
R510	1-249-427-11	CARBON	6.8K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-249-430-11	CARBON	12K	5%	1/4W
R513	1-249-404-00	(AV320)...CARBON	82	5%	1/4W
R514	1-249-429-11	(AV320)...CARBON	10K	5%	1/4W
R515	1-249-434-11	CARBON	27K	5%	1/4W
R516	1-249-434-11	CARBON	27K	5%	1/4W
R517	1-249-441-11	CARBON	100K	5%	1/4W
R518	1-249-441-11	CARBON	100K	5%	1/4W
R519	1-249-441-11	CARBON	100K	5%	1/4W
R520	1-247-903-00	CARBON	1M	5%	1/4W
R521	1-249-428-11	CARBON	8.2K	5%	1/4W
R522	1-247-903-00	CARBON	1M	5%	1/4W
R523	1-249-441-11	(AV320)...CARBON	100K	5%	1/4W
R524	1-249-426-11	(AV320)...CARBON	5.6K	5%	1/4W
R551	1-249-429-11	CARBON	10K	5%	1/4W
R552	1-249-421-11	CARBON	2.2K	5%	1/4W
R553	1-249-441-11	CARBON	100K	5%	1/4W
R554	1-249-427-11	CARBON	6.8K	5%	1/4W
R555	1-249-438-11	CARBON	56K	5%	1/4W
R556	1-249-441-11	CARBON	100K	5%	1/4W
R557	1-247-883-00	CARBON	150K	5%	1/4W
R558	1-249-417-11	CARBON	1K	5%	1/4W
R559	1-249-412-11	CARBON	390	5%	1/4W
R560	1-249-427-11	CARBON	6.8K	5%	1/4W
R561	1-249-417-11	CARBON	1K	5%	1/4W
R562	1-249-430-11	CARBON	12K	5%	1/4W
R563	1-249-404-00	(AV320)...CARBON	82	5%	1/4W
R564	1-249-429-11	(AV320)...CARBON	10K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W
R602	1-249-438-11	CARBON	56K	5%	1/4W
R603	1-249-411-11	CARBON	330	5%	1/4W
R604 ⚠	1-249-421-11	(AV220)...CARBON	2.2K	5%	1/4W
R604 ⚠	1-249-423-11	(AV320)...CARBON	3.3K	5%	1/4W
R605	1-249-438-11	CARBON	56K	5%	1/4W
R606	1-247-756-11	(AV220)...CARBON	2.2K	5%	1/2W
R606	1-247-758-11	(AV320)...CARBON	3.3K	5%	1/2W

Ref.No.	Part No.	Description				
R607 ⚠	1-217-151-00	RES, METAL PLATE 0.22				
R608	1-249-417-11	CARBON	1K	5%	1/4W	
R612 ⚠	1-249-405-11	CARBON	100	5%	1/4W	F
R615 ⚠	1-249-405-11	CARBON	100	5%	1/4W	F
R621	1-249-427-11	CARBON	6.8K	5%	1/4W	
R622	1-249-435-11	CARBON	33K	5%	1/4W	
R623	1-249-433-11	CARBON	22K	5%	1/4W	
R624 ⚠	1-247-727-11	CARBON	10	5%	1/2W	F
R625	1-247-768-00	CARBON	2.4	5%	1/4W	
R626	1-249-441-11	CARBON	100K	5%	1/4W	
R627	1-249-435-11	CARBON	33K	5%	1/4W	
R628	1-249-427-11	CARBON	6.8K	5%	1/4W	
R629 ⚠	1-249-399-11	CARBON	33	5%	1/4W	F
R630	1-249-417-11	CARBON	1K	5%	1/4W	
R631	1-249-429-11	CARBON	10K	5%	1/4W	
R632	1-249-441-11	CARBON	100K	5%	1/4W	
R633	1-249-429-11	CARBON	10K	5%	1/4W	
R634	1-249-423-11	CARBON	3.3K	5%	1/4W	
R635	1-249-441-11	CARBON	100K	5%	1/4W	
R636	1-247-903-00	CARBON	1M	5%	1/4W	
R637 ⚠	1-216-432-00	METAL OXIDE	820	5%	1W	F
R638 ⚠	1-216-454-11	METAL OXIDE	390	5%	2W	F
R639	1-247-768-00	CARBON	2.4	5%	1/4W	
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-249-438-11	CARBON	56K	5%	1/4W	
R653	1-249-411-11	CARBON	330	5%	1/4W	
R654 ⚠	1-249-421-11	(AV220)...CARBON	2.2K	5%	1/4W	
R654 ⚠	1-249-423-11	(AV320)...CARBON	3.3K	5%	1/4W	
R655	1-249-438-11	CARBON	56K	5%	1/4W	
R656	1-247-756-11	(AV220)...CARBON	2.2K	5%	1/2W	
R656	1-247-758-11	(AV320)...CARBON	3.3K	5%	1/2W	
R657 ⚠	1-217-151-00	RES, METAL PLATE 0.22				
R658-A	1-249-417-11	CARBON	1K	5%	1/4W	
R658-B ⚠	1-216-454-11	METAL OXIDE	390	5%	2W	F
R671	1-249-427-11	CARBON	6.8K	5%	1/4W	
R672	1-249-435-11	CARBON	33K	5%	1/4W	
R673	1-249-433-11	CARBON	22K	5%	1/4W	
R674 ⚠	1-247-727-11	CARBON	10	5%	1/2W	F
R675	1-247-768-00	CARBON	2.4	5%	1/4W	
R676	1-249-441-11	CARBON	100K	5%	1/4W	
R689	1-247-768-00	CARBON	2.4	5%	1/4W	
R702	1-249-422-11	CARBON	2.7K	5%	1/4W	
R703 ⚠	1-216-448-11	METAL OXIDE	39	5%	2W	F
R705	1-249-423-11	CARBON	3.3K	5%	1/4W	
R706 ⚠	1-249-405-11	CARBON	100	5%	1/4W	F
R707	1-249-410-11	CARBON	270	5%	1/4W	
R708 ⚠	1-249-389-11	CARBON	4.7	5%	1/4W	F
R709	1-249-423-11	CARBON	3.3K	5%	1/4W	
R710	1-249-429-11	(AV220)...CARBON	10K	5%	1/4W	
R710	1-249-433-11	(AV320)...CARBON	22K	5%	1/4W	
R711	1-249-429-11	CARBON	10K	5%	1/4W	
R712	1-249-429-11	CARBON	10K	5%	1/4W	
R713	1-249-426-11	CARBON	5.6K	5%	1/4W	
R714	1-249-417-11	CARBON	1K	5%	1/4W	
R715	1-249-426-11	CARBON	5.6K	5%	1/4W	
R716	1-249-417-11	(AV320)...CARBON	1K	5%	1/4W	
R717	1-249-429-11	(AV320)...CARBON	10K	5%	1/4W	

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Ref.No.	Part No.	Description
R718 ⚠	1-249-401-11	CARBON 47 5% 1/4W F
R719	1-249-425-11	CARBON 4.7K 5% 1/4W
R720	1-249-437-11	CARBON 47K 5% 1/4W
R721	1-249-413-11	CARBON 470 5% 1/4W
R722	1-249-437-11	CARBON 47K 5% 1/4W
R723	1-249-437-11	CARBON 47K 5% 1/4W
R724	1-249-437-11	CARBON 47K 5% 1/4W
R725	1-249-437-11	CARBON 47K 5% 1/4W
R726	1-249-410-11	CARBON 270 5% 1/4W
R727	1-249-430-11	(AV220)...CARBON 12K 5% 1/4W
R801 ⚠	1-249-389-11	CARBON 4.7 5% 1/4W F
R802	1-249-437-11	(AV320)...CARBON 47K 5% 1/4W
R803	1-249-396-11	(AV320)...CARBON 18 5% 1/4W
R804 ⚠	1-247-739-11	CARBON 100 5% 1/2W F
R805	1-249-425-11	(AV320)...CARBON 4.7K 5% 1/4W
R901	1-202-725-00	SOLID 3.3M 10% 1/2W
RB301	1-233-081-11	COMPOSITION CIRCUIT BLOCK
RB302	1-232-955-11	COMPOSITION CIRCUIT BLOCK
RB303	1-232-998-11	COMPOSITION CIRCUIT BLOCK
RV501	1-238-942-11	RES, VAR, CARBON 100K (BALANCE)
RV502	1-238-074-11	(AV220)...RES, VAR, CARBON 100K/100K (VOLUME)
RV502	1-238-943-11	(AV320)...RES, VAR, CARBON 100K/100K (VOLUME)
RV503	1-238-941-11	RES, VAR, CARBON 50K/50K(TONE BASS)
RV504	1-238-941-11	RES, VAR, CARBON 50K/50K(TONE TREBLE)
RY601	1-515-533-11	RELAY
RY901	1-515-720-11	(AV320)...RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (TUNING DIRECT)
S302	1-554-303-21	SWITCH, KEY BOARD (PRESET -)
S303	1-554-303-21	SWITCH, KEY BOARD (TUNING -)
S304	1-554-303-21	SWITCH, KEY BOARD (BAND FM)
S305	1-554-303-21	SWITCH, KEY BOARD (FM MODE)
S306	1-554-303-21	SWITCH, KEY BOARD (PRESET +)
S307	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S308	1-554-303-21	SWITCH, KEY BOARD (BAND AM)
S310	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S311	1-554-303-21	SWITCH, KEY BOARD (VIDEO)
S312	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S313	1-554-303-21	SWITCH, KEY BOARD (TUNING)
S314	1-554-303-21	SWITCH, KEY BOARD (CD)
S315	1-554-303-21	SWITCH, KEY BOARD (7)
S316	1-554-303-21	SWITCH, KEY BOARD (8)
S317	1-554-303-21	SWITCH, KEY BOARD (9)
S318	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S319	1-554-303-21	SWITCH, KEY BOARD (4)

Ref.No.	Part No.	Description
S320	1-554-303-21	SWITCH, KEY BOARD (5)
S321	1-554-303-21	SWITCH, KEY BOARD (6)
S322	1-554-303-21	SWITCH, KEY BOARD (0)
S323	1-554-303-21	SWITCH, KEY BOARD (1)
S324	1-554-303-21	SWITCH, KEY BOARD (2)
S325	1-554-303-21	SWITCH, KEY BOARD (3)
S326	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S327	1-554-303-21	SWITCH, KEY BOARD (DBFB)
S328	1-554-303-21	(AV320)...SWITCH, KEY BOARD (MUTING)
S329	1-554-303-21	SWITCH, KEY BOARD (SURROUND)
S330	1-554-303-21	(AV320)...SWITCH, KEY BOARD (SYSTEM POWER)
S601	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKER A)
S602	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKER B)
S901 ⚠	1-554-920-11	(AV220)..SWITCH, PUSH(AC POWER)(1 KEY)
T901 ⚠	1-449-965-11	(AV220)...TRANSFORMER, POWER
T901 ⚠	1-449-966-11	(AV320)...TRANSFORMER, POWER
T902 ⚠	1-448-517-21	(AV320)...TRANSFORMER, POWER
TM601	1-536-706-00	TERMINAL BOARD (SPEAKER)
VZ901 ⚠	1-807-293-11	(AV320)...VARISTOR (SNR-14A 140K)
X301	1-567-170-00	OSCILLATOR, CERAMIC (4.194MHz)

ACCESSORY & PACKING MATERIAL

	1-465-423-11	(AV320)...REMOTE COMMANDER (RM-S103)
	1-501-374-11	ANTENNA, LOOP
	2-181-754-01	(AV320)...COVER, BATTERY
	3-751-607-21	MANUAL, INSTRUCTION(ENGLISH)
	3-751-607-31	(Canadian)...MANUAL, INSTRUCTION (ENGLISH,FRENCH)
*	4-931-010-01	CUSHION (BOTTOM)
*	4-931-011-01	CUSHION (TOP)
*	4-931-097-01	(AV220)...INDIVIDUAL CARTON
*	4-931-098-01	(AV320)...INDIVIDUAL CARTON

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9-955-690-11

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